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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/728,797	12/08/2003	Kia Silverbrook	ZF133US	8913
•	24011	7590 10/14/2005	RECEIVED	EXAN	IINER
	SILVERBR 393 DARLIN	OOK RESEARCH PT		LEBRON, JA	ANNELLE M
	BALMAIN,	2041	OCT 3 1 2005	ART UNIT	PAPER NUMBER
	AUSTRALIA	,	0(1 3 1 2003	2861	

DATE MAILED: 10/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
, O. C	10/728,797	SILVERBROOK, KIA			
Office Action Summary	Examiner	Art Unit			
	Jannelle M. Lebron	2861			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>08 Description</u>	ecember 2003.				
2a) This action is FINAL . 2b) ⊠ This	action is non-final.				
3) Since this application is in condition for allowar	· ·				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-6 is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	wn from consideration.				
5) Claim(s) is/are allowed.					
. 6)⊠ Claim(s) <u>1-6</u> is/are rejected.					
7) Claim(s) is/are objected to.	lastion requirement	•			
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine					
10)⊠ The drawing(s) filed on <u>08 December 2003</u> is/a	re: a)□ accepted or b)⊠ object	ed to by the Examiner.			
Applicant may not request that any objection to the	- · ·				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex					
,	difficient to a diagnost of the				
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).			
 a) All b) Some * c) None of: 1. Certified copies of the priority document 	s have been received				
•		ion No			
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate Patent Application (PTO-152)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/12/2003.	6) Other:	atom approacion (i 10-102)			

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 12/12/2003 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the plurality of printhead modules, the inkjet printer, and the fiducials must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for

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consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

3. Claim 3 is objected to because of the following informalities: the word "with" should be replaced by "within". Appropriate correction is required.

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double

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patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 5. Claims 1-5 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-5 of U.S. Patent No. 6,802,594.
- 6. Below is a table of comparison between the conflicting claims that show why they are not patentably distinct from each other:

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1. A printhead assembly for an inkjet printer, the printhead assembly comprising:

a plurality of printhead modules; a support member

with a first component and a second component, the first component adapted for mounting the printhead assembly within an inkjet printer, and the second component adapted to mount the printhead modules, the second component having a modules than the first component; wherein,

the first component is bonded to the second component via intermediate resilient material; such that,

the first component can expand more

6,802,594 B2

A system for aligning a plurality of printhead modules mounted on a support member in a printer [column 4, lines 8-9]

wherein the beam has a core of silicon and an outer metal shell [column 4, lines 22-25]. [The outer metal shell is taken as the first component and the silicon core is taken as the second component. It is an inherent property of the silicon core to have a coefficient of thermal expansion closer to that of the printhead chip than the metal shell.]

wherein the beam has an elastomeric layer between the silicon core and metal shell to permit the limited relative movement [column 4, lines 30-34].

[it is an inherent property of the metal to

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than the second component.

2. A printhead assembly according to claim 1 wherein the support member is a beam and the printhead modules include MEMS manufactured chips having at least one fiducial on each; wherein,

the fiducials are used to misalign the printhead modules by a distance calculated from:

- i) the difference between the coefficient of thermal expansion of the beam and the printhead chips;
- ii) the spacing of the printhead chips along the beam; and,
- iii) the difference between the production temperature and the operating temperature.
- 3. A printhead assembly according to claim 2 wherein the first component of the beam is an outer metal shell, and the second component of the beam is a core of silicon with the outer metal shell.
- 4. A printhead assembly according to claim 3 wherein the elastomeric material is an elastomeric layer interposed between the silicon core and metal shell.
- 5. A printhead assembly according to claim 3 wherein the outer shell is formed from laminated layers of at least two different metals.

expand more than the dielectric]

wherein the support member is a beam and the printhead modules include MEMS manufactured chips having at least one fiducial on each [column 4, lines 9-13]; wherein,

the fiducials are used to misalign the printhead modules by a distance calculated from:

- i) the difference between the coefficient of thermal expansion of the beam and the printhead chips;
- ii) the spacing of the printhead chips along the beam; and,
- iii) the difference between the production temperature and the operating temperature [column 4, lines 15-21].

A system for aligning a plurality of printhead modules mounted to a support member and a printer according to claim 1 wherein the beam has a core of silicon and an outer metal shell [column 4, lines 22-25].

A system for aligning a plurality of printhead modules mounted to a support member in a printer according to claim 3 wherein the beam has an elastomeric layer between the silicon core and metal shell to permit the limited relative movement [column 4, lines 30-34].

A system for aligning a plurality of printhead modules mounted to a support member in a printer according to claim 4 wherein the outer shell is formed from laminated layers of at least two different metals [column 4, lines 35-38].

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7. Claims 6 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-5 of U.S. Patent No. 6,802,594 in view of Silverbrook (US Patent 6,652,071). Patent 6,802,594 meets the claimed limitations except "wherein the printhead is a pagewidth printhead for printing across the width of a page simultaneously."

- 8. Patent 6,652,071 discloses a printhead assembly for an inkjet printer very similar in its properties and function as the one in Patent 6,802,594 "wherein the printer is a pagewidth printer." It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to use a pagewidth printhead on the printer of the claimed invention in 6,802,594. One would have been motivated to so modify 6,802,594 to print across the width of the page thereby increasing printing speeds as taught in 6,652,071.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jannelle M. Lebron whose telephone number is (571) 272-2729. The examiner can normally be reached on Monday thru Friday 8:30am-5:00pm.

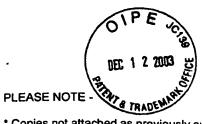
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David M. Gray can be reached on (571) 272-2119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JML

DAVID M. GRAY PRIMARY EXAMINER



* Copies not attached as previously submitted to or cited by the USPTO in parent application US 09/129,437

PTO/SB/08A (10-01)

Approved for use through .10/31/2002. OMB 0651-0031

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Complete if Known Substitute for form 1449A/PTO **Application Number** INFORMATION DISCLOSURE Filing Date STATEMENT BY APPLICANT Kia Silverbrook First Named Inventor **Art Unit** (use as many sheets as necessary) **Examiner Name ZF133US** Sheet of 2 Attorney Docket Number

	U.S. PATENT DOCUMENTS							
Examiner Initials		Document Number Number - Kind Code ³ (If known	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Cotumns, Lines, Where Relevant Passages or Relevant Figures Appear			
ms		us- 5,528,272 °	Jun 1, 1996	Quinn et al	,			
ma		us-5,734,394 *	Mar 31, 1998	Hackieman				
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	FOREIGN PATENT DOCUMENTS						
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PTO/SB/08B (08-03)

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Complete if Known Substitute for form 1449/PTO **Application Number INFORMATION DISCLOSURE Filing Date**

STATEMENT BY APPLICANT **First Named Inventor** Kia Silverbrook Art Unit (Use as many sheets as necessary) **Examiner Name Attorney Docket Number** Sheet 2 **ZF133US**

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Derwent Abstract Acc No 20000-676139/66, Class P75; T04, JP 2000280496 (TOKYO	
<u></u>		ELEC CO LTD) 10 Oct 2000*	
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Notice of References Cited

Application/Control No.

10/728,797

Examiner

Jannelle M. Lebron

Applicant(s)/Patent Under Reexamination SILVERBROOK, KIA

Art Unit
Page 1 of 1

U.S. PATENT DOCUMENTS

*	•	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US-6,652,071 B2	11-2003	Silverbrook, Kia	347/49
	В	US-6,802,594 B2	10-2004	Silverbrook, Kia	347/49
	С	US-			
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NON-PATENT DOCUMENTS

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